Purpose

To Provide an update on USAIS Digital Training and the MCS-L Center of Excellence

USAIS Update

21 Jan 04

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Digital Training Facilities

- **8 each 22 Student Classrooms**
  - **Multi-functional (FBCB2, MCS-L, and non-digital training for IOBC/OCS/etc)**
  - **5 rooms: 110 Student FBCB2 dual drive systems capable of running FBCB2 & MCS (Dual NIC)**
  - **3 rooms: 66 Student MCS-L systems (8 SQL Servers)**
  - **BNCOC / IOBC FBCB2 Training Requirements**
    - **BNCOC 210x6; IOBC 166x7 Total: ~2422 per year**
  - **MCS-L ANCOC / ICCC Requirements**
    - **ANCOC 165x4; ICCC 135x4 Total: ~1200 per year**
  - **SmartClass System**
  - **2 Projectors per classroom**
  - **DTF Network supports multiple C2 configurations; multi-level TOC exercises; sim/stim support**
  - **DTF Network supports connectivity to other backbones**
  - **16 FBCB2 tactical systems (2 per digital classroom)**

Digital Training Facilities

- **Network Accreditation/DoD Information Technology Security Certification and Accreditation Process (DITSCAP) FY04 Tng Guidance**
- **Stimulation/Simulation capability**
  - **SIMPLE/DAUVS (Provided by Product Manager (PdM) MCS-L, component of DBST-LOD)**
  - **MOA for DBST-LOD Beta site ~$30K**

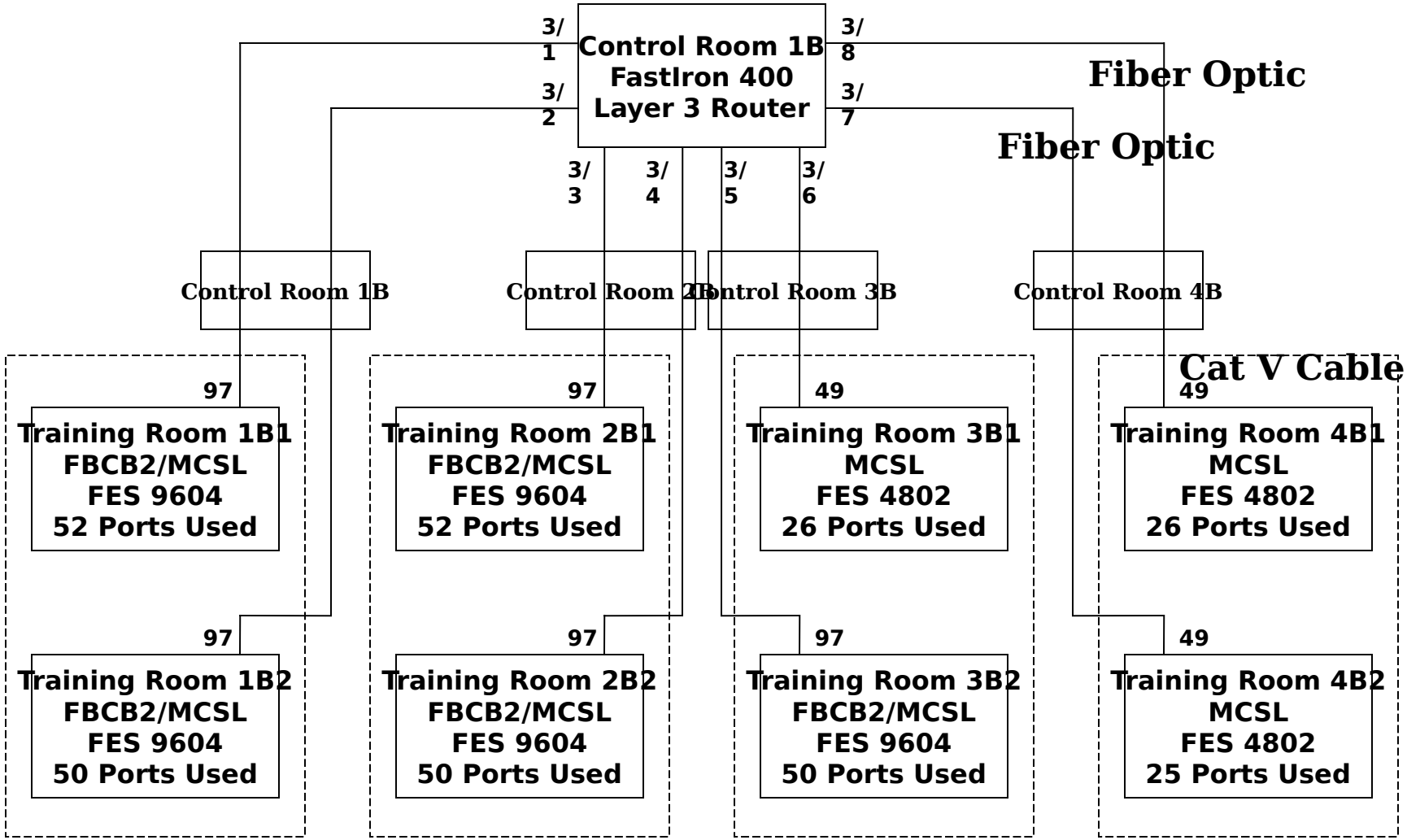
- **8 classrooms 1B-4B complete 13 Feb 04**
- **Phase II: Integrated FBCB2/MCS-L equipment support to ANCOC/ICCC SGI classrooms**

- **18 student FBCB2 classroom at the Collins Center**
  - **Bradley Master Gunner**
  - **Bradley Leader Course**

Digital Training Facilities

DTF Local Area Network

Each training room layer 2 switch configured as separate subnet.
Single broadcast domain (no VLAN separation) for all users on each training room Layer 2 sw
All training rooms can communicate through Layer 3 switch.
Reconfiguration on Layer 3 switch can allow multiple training rooms to be merged into same
Layer 3 switch can isolate training rooms from each other for isolated training.



DTF Local Area Network

CAT5 to desktop - 10/100BaseTX connectivity.
MCSL workstations have single NIC interface.
Combo (FBCB2 / MCSL) workstations have two NIC interfaces.
10MB reserved for each network connection

											336	168	96	48	24													
Closet	Training Workstation Type	Student Workstations	Instructor Workstations	Servers	Printers	Ports Used	Ports including 25% Growth	Bandwidth = 10MB per port	Gb Uplinks To Core	GB Uplinks To Core Including	25% Growth Per Closet	Fastiron 1500, 15-slot Chassis with two(2) RPS4 Power Supplies **FI1500**	Fastiron 800, 8-slot Chassis with one(1) RPS3 Power Supply **FI800**	Fastiron Edge Switch 96-Port Stackable **FES9604**	Fastiron Edge Switch 48-Port Stackable **FES4802**	Fastiron Edge Switch 24-Port Stackable **FES2402**	1000Base-LX GBIC **E1MG-LX**		Bigiron 4000, 4-slot Chassis with one(1) RPS3 Power Supply **B14000**	Bigiron Management Card with 8 GBIC Ports J-**BxGMR4**	Bigiron 8-Port GBIC Card **J-BxG**	1000Base-LX GBIC **E1MG-LX**	Bigiron 48-Port 10/100BaseT RJ-45 Module **J-BxGMR4**	Power Supply **RPS3**	
1B1	Combo	22	1	1	2	52	65	650	1	2	0	0	1	0	0	1												
1B2	Combo	22	1	1	1	50	63	630	1	2	0	0	1	0	0	1												
2B1	Combo	22	1	1	2	52	65	650	1	2	0	0	1	0	0	1												
2B2	Combo	22	1	1	1	50	63	630	1	2	0	0	1	0	0	1												
3B1	MCSL	22	1	1	2	26	33	330	1	2	0	0	0	1	0	1												
3B2	Combo	22	1	1	1	50	63	630	1	2	0	0	1	0	0	1												
4B1	MCSL	22	1	1	2	26	33	330	1	2	0	0	0	1	0	1												
4B2	MCSL	22	1	1	1	25	32	320	1	2	0	0	0	1	0	1												
Totals		**176**	**8**	**8**	**12**	**331**	**417**		**8**	**16**	**0**	**0**	**5**	**3**	**0**	**8**			**1**	**1**	**1**	**16**	**1**	**1**				

DTF Personnel Support

- **Instructors**
  - **3 Instructors hired Oct 03**
  - **Ramp-up additional FY04 instructors to meet demand**
  - **Minimum 8 week train-up with train the trainer**
- **Instructor Training**
  - **Completed The Army Instructor Training Course (2 weeks)**
  - **Completed FBCB2 Digital Master Trainer Course (3 weeks)**
  - **MCS-L I&KPT 16-27 Feb 04 (2 weeks) plus additional SQL server training**
  - **MCS-L JRTC field training early Mar 04 (~2 weeks)**
  - **Provide MCS-L Operator Support for Digital Exercise at Fort Leavenworth 29 Mar-8 Apr (2 weeks)**

DTF Personnel Support

- **Network System Administrator**
  - **Partnership with PdM MCS-L**
  - **Interface with Sim/Stim (SIMPLE/DAUVS)**
  - **Interface with Fixed Tactical Internet**
  - **Development of Practical Exercises Supporting MCS-L Integrated Training**
  - **Lifelong Learning Center Integration**

- **Network System Administrator Training**
  - **PM FBCB2 I&KPT training Feb 04**
  - **PdM MCS-L Partnership (Feb 04 and as needed)**

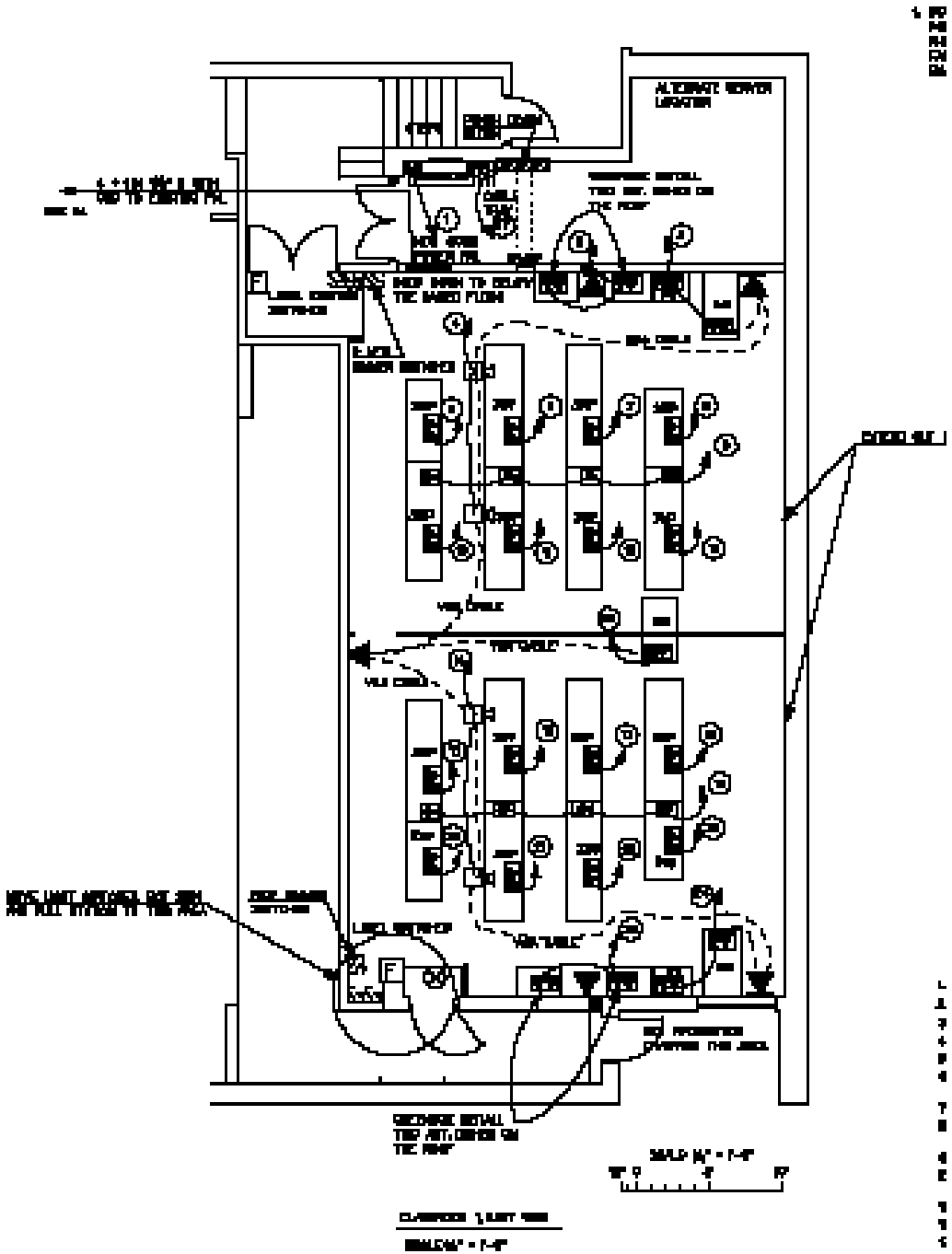
- **FBCB2/MCS-L Training Analyst => Trainer**
  - **BNCOC/ANCOC/BOLC/ICCC Integration**

FY04 FBCB2/MCS-L Training

- **SMDR FBCB2/MCS-L Additive Submissions**
- **Pilot FBCB2/MCS-L Training**
  - **Office of Infantry Proponency**
  - **Course Convening Authorities: BNCOC, ANCOC, BOLC, ICCC**
- **Additive FBCB2/MCS-L**
- **Functional MCS-L Course**
  - **ATRRS**
  - **Instructors & Facilities Available**
- **NCOES Surge from Global War on Terrorism impact on BNCOC/ANCOC FBCB2/MCS-L Pilots**

FBCB2/MCS-L Training
CHALLENGES/ISSUES

- **Network Accreditation/DITSCAP accreditation**
- **SMDR Way Ahead**



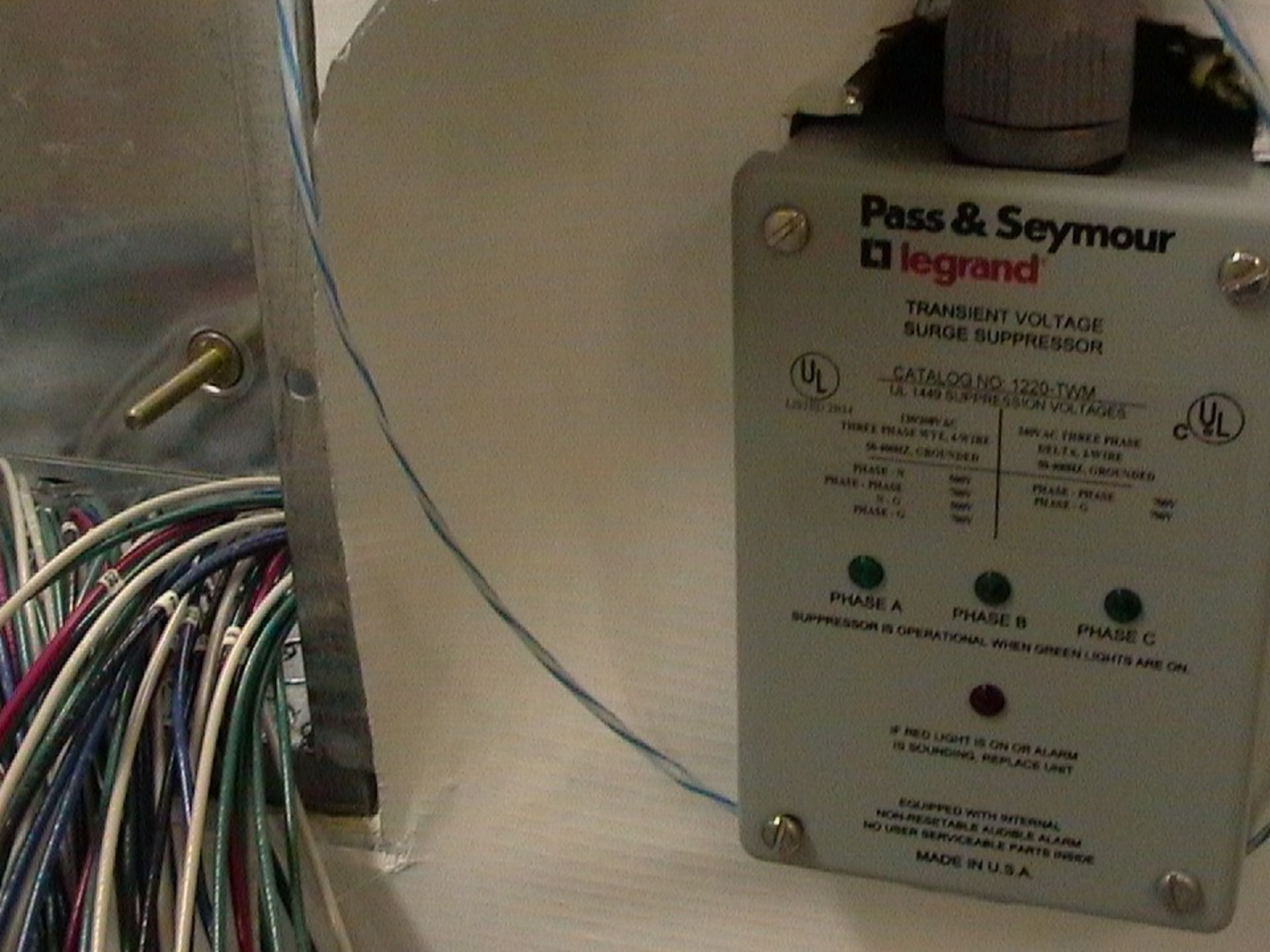
As of

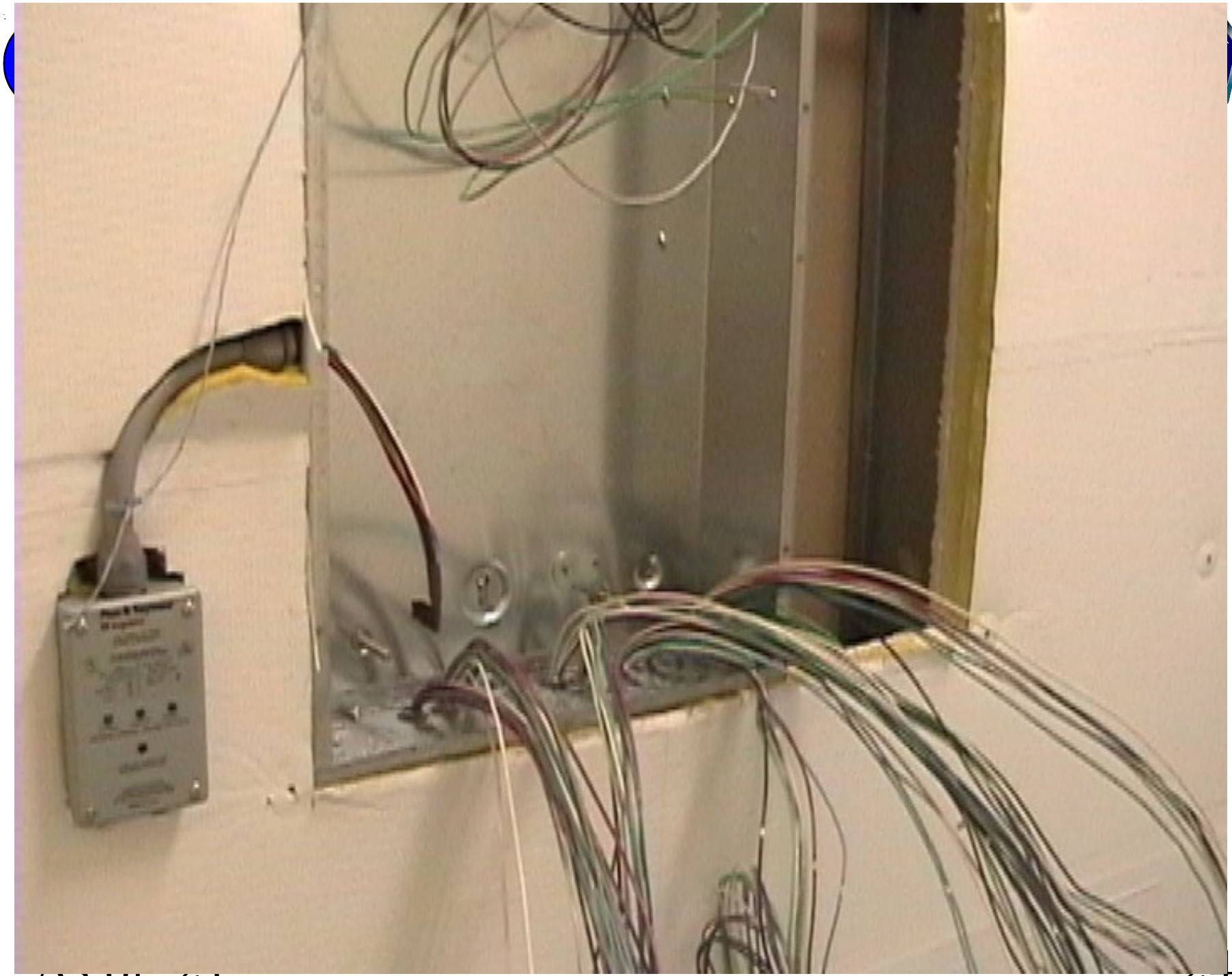
12

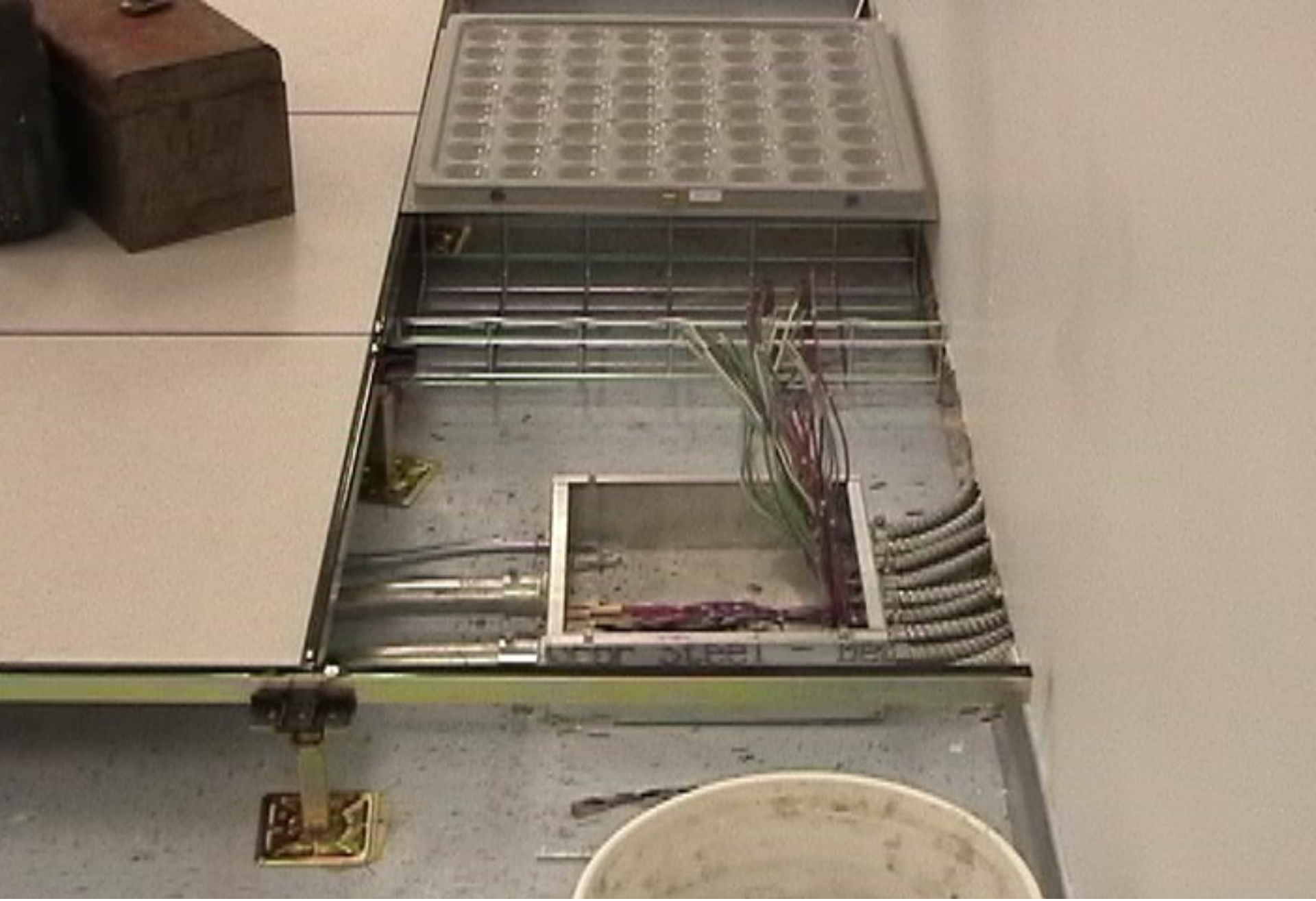
Projector
Mount
UPS
Mount

Projector Mount
UPS Mount

As of: 21


Pass & Seymour
legrand
TRANSIENT VOLTAGE
SURGE SUPPRESSOR
CATALOG NO. 1220-TWM
UL 1449 SUPPRESSION VOLTAGES
PHASE A
PHASE B
PHASE C
SUPPRESSOR IS OPERATIONAL WHEN GREEN LIGHTS ARE ON
IF RED LIGHT IS ON OR ALARM
IS SOUNDING, REPLACE UNIT
EQUIPPED WITH INTERNAL
NON-RESETABLE AUDIBLE ALARM
NO USER SERVICEABLE PARTS INSIDE
MADE IN U.S.A.





530-1 Silver Feather 530-1

530-2

Questions?